King Fahd University of Petroleum & Minerals
Department of Mathematics and Statistics
(Semester 152) Math 102 Quiz # 6

Name: _____ I.D. # _____ Sr. # ___

1. Test the series $\sum_{n=1}^{\infty} \frac{1}{n^{1+\frac{1}{n}}}$ for convergence.
2. Test the series $\sum_{n=1}^{\infty} \frac{\cos(n\,\pi/3)}{\sqrt[3]{3n^4+1}}$ for convergence.
3. Test the series $\sum_{n=1}^{\infty} \frac{2^{n^2}}{n!}$ for convergence.

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Name: _____ I.D. # _____ Sr. # ___

1. Test the series $\sum_{n=1}^{\infty} (\sqrt[n]{3}-1)$ for convergence.
2. Test the series $\sum_{n=1}^{\infty} \frac{\cos(n\,\pi/3)}{\sqrt[3]{3n^4+1}}$ for convergence.
3. Test the series $\sum_{n=1}^{\infty} \frac{(n!)^n}{n^{4n}}$ for convergence.